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L1	65065	(program or application or software) with optimiz$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L2	18736	L1 and loop	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:09
L3	18739	L1 and loop$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:09
L4	2870	L3 and (execut$3 with (routine or path))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L5	353	L4 and ((inner adj loop) or inner-loop)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L6	241	L5 and frequenc$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L7	36	L6 and "717"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L8	116	L6 and graph	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:09

L9	41	L8 and counter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L10	1525	L1 and (control with graph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:09
L11	584	L1 and (control near2 graph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:09
L12	295	L11 and (execut$3 with (path or routine))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:09
L13	33	L12 and ((inner adj loop$1) or in-loop$1 or inner-loop$1) and ((outer adj loop$1) or out-loop$1 or outer-loop$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:09
L14	21	L13 and frequenc$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L15	65065	(program or application or software) with optimiz$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:09
L16	4178	L15 and (frequenc$3 with multipl$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08

L17	128	L15 and (frequenc$3 with multipl$3 with loop$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L18	218289	(program or application or software) with (optimiz$5 or profil$3 or trac$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L19	423	L18 and (frequenc$3 with multipl$3 with loop$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L20	9885	L18 and (frequenc$3 with multipl$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L21	0	L18 and (frequenc$3 with multipl$3 with (in-loop$1 or inner-loop or (inner adj loop) or (in-inner adj loop)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L22	13	L19 and (instrument$5 with (program or application or software))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L23	218289	(program or application or software) with (optimiz$5 or profil$3 or trac$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L24	423	L23 and (frequenc$3 with multipl$3 with loop$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08

L25	13	L24 and (instrument$5 with (program or application or software))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L26	0	L25 and ((add$3 or insert$3 or plac$3) with (jump or branch) with (instruction or statement or code))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L27	9194	L23 and (instrument$5 with (program or application or software))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L28	259	L27 and ((add$3 or insert$3 or plac$3) with (jump or branch) with (instruction or statement or code))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L29	118	L28 and "717"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 11:10
L30	78	L29 and loop$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L31	44	L30 and graph	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08
L32	2	((komatsu near hideaki) and (suganuma near toshio) and (yasue near toshiaki)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 10:08

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1 Profile-based optimizations: Dynamic trace selection using performance monitoring hardware sampling
Howard Chen, Wei-Chung Hsu, Jiwei Lu, Pen-Chung Yew, Dong-Yuan Chen
March 2003 **Proceedings of the international symposium on Code generation and optimization: feedback-directed and runtime optimization CGO '03**
Publisher: IEEE Computer Society

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Optimizing programs at run-time provides opportunities to apply aggressive optimizations to programs based on information that was not available at compile time. At run time, programs can be adapted to better exploit architectural features, optimize the use of dynamic libraries, and simplify code based on run-time constants.Our profiling system provides a framework for collecting information required for performing run-time optimization. We sample the performance hardware registers available on ...

2 An efficient profile-analysis framework for data-layout optimizations
Shai Rubin, Rastislav Bodík, Trishul Chilimbi
January 2002 **ACM SIGPLAN Notices , Proceedings of the 29th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '02**, Volume 37 Issue 1
Publisher: ACM Press

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Data-layout optimizations rearrange fields within objects, objects within objects, and objects within the heap, with the goal of increasing spatial locality. While the importance of data-layout optimizations has been growing, their deployment has been limited, partly because they lack a unifying framework. We propose a parameterizable framework for data-layout optimization of general-purpose applications. Acknowledging that finding an optimal layout is not only NP-hard, but also poorly approxima ...

3 Using branch handling hardware to support profile-driven optimization
Thomas M. Conte, Burzin A. Patel, J. Stan Cox
November 1994 **Proceedings of the 27th annual international symposium on Microarchitecture MICRO 27**
Publisher: ACM Press

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